

#2

0570
1015

OIEP

RAW SEQUENCE LISTING

DATE: 01/26/2002

PATENT APPLICATION: US/09/809,617

TIME: 13:46:01

Input Set : N:\Crf3\RULE60\09809617.raw

Output Set: N:\CRF3\01252002\I809617.raw

1 <110> APPLICANT: Sheppard, Paul O.
2 Baindur, Nand
3 Deisher, Theresa A.
4 Bishop, Paul D.
5 <120> TITLE OF INVENTION: DISINTEGRIN HOMOLOG
6 <130> FILE REFERENCE: 98-29
7 <140> CURRENT APPLICATION NUMBER: 09/809,617
8 <141> CURRENT FILING DATE: 2001-03-15
9 <150> PRIOR APPLICATION NUMBER: US/09/351,414
10 <151> PRIOR FILING DATE: 1999-07-09
11 <160> NUMBER OF SEQ ID NOS: 13
12 <170> SOFTWARE: FastSEQ for Windows Version 3.0
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 2268
15 <212> TYPE: DNA
16 <213> ORGANISM: Homo sapiens
17 <220> FEATURE:
18 <221> NAME/KEY: CDS
19 <222> LOCATION: (3)...(2090)
20 <221> NAME/KEY: misc_feature
21 <222> LOCATION: (1)...(2268)
22 <223> OTHER INFORMATION: n = A,T,C or G
23 <400> SEQUENCE: 1
24 cc act gtg ttg gaa ttc ggc acg agg ctt gac aca aag gca aga cac 47
25 Thr Val Leu Glu Phe Gly Thr Arg Leu Asp Thr Lys Ala Arg His
26 1 5 10 15
27 cag caa aaa cat aat aag gct gtc cat ctg gcc cag gca agc ttc cag 95
28 Gln Gln Lys His Asn Lys Ala Val His Leu Ala Gln Ala Ser Phe Gln
29 20 25 30
30 att gaa gcc ttc ggc tcc aaa ttc att ctt gac ctc ata ctg aac aat 143
31 Ile Glu Ala Phe Gly Ser Lys Phe Ile Leu Asp Leu Ile Leu Asn Asn
32 35 40 45
33 ggt ttg ttg tct tct gat tat gtg gag att cac tac gaa aat ggg aaa 191
34 Gly Leu Leu Ser Ser Asp Tyr Val Glu Ile His Tyr Glu Asn Gly Lys
35 50 55 60
36 cca cag tac tct aag ggt gga gag cac tgt tac tac cat gga agc atc 239
37 Pro Gln Tyr Ser Lys Gly Glu His Cys Tyr Tyr His Gly Ser Ile
38 65 70 75
39 aga ggc gtc aaa gac tcc aag gtg gct ctg tca acc tgc aat gga ctt 287
40 Arg Gly Val Lys Asp Ser Lys Val Ala Leu Ser Thr Cys Asn Gly Leu
41 80 85 90 95
42 cat ggc atg ttt gaa gat gat acc ttc gtg tat atg ata gag cca cta 335
43 His Gly Met Phe Glu Asp Asp Thr Phe Val Tyr Met Ile Glu Pro Leu

ENTERED

RAW SEQUENCE LISTING

DATE: 01/26/2002

PATENT APPLICATION: US/09/809,617

TIME: 13:46:01

Input Set : N:\Crf3\RULE60\09809617.raw

Output Set: N:\CRF3\01252002\I809617.raw

48		100		105		110		
49	gag ctg gtt cat gat gag aaa agc aca ggt cga cca cat ata atc cag							383
50	Glu Leu Val His Asp Glu Lys Ser Thr Gly Arg Pro His Ile Ile Gln							
51		115		120		125		
52	aaa acc ttg gca gga cag tat tct aag caa atg aag aat ctc act atg							431
53	Lys Thr Leu Ala Gly Gln Tyr Ser Lys Gln Met Lys Asn Leu Thr Met							
54		130		135		140		
55	gaa aga ggt gac cag tgg ccc ttt ctc tct gaa tta cag tgg ttg aaa							479
56	Glu Arg Gly Asp Gln Trp Pro Phe Leu Ser Glu Leu Gln Trp Leu Lys							
57		145		150		155		
58	aga agg aag aga gca gtg aat cca tca cgt ggt ata ttt gaa gaa atg							527
59	Arg Arg Lys Arg Ala Val Asn Pro Ser Arg Gly Ile Phe Glu Glu Met							
60		160		165		170		175
61	aaa tat ttg gaa ctt atg att ggt aat gat cac aaa acg tat aag aag							575
62	Lys Tyr Leu Glu Leu Met Ile Gly Asn Asp His Lys Thr Tyr Lys Lys							
63		180		185		190		
64	cat cgc tct tct cat gca cat acc aac aac ttt gca aag tcc gtg gtc							623
65	His Arg Ser Ser His Ala His Thr Asn Asn Phe Ala Lys Ser Val Val							
66		195		200		205		
67	aac ctt gtg gat tct att tac aag gag cag ctc aac acc agg gtt gtc							671
68	Asn Leu Val Asp Ser Ile Tyr Lys Glu Gln Leu Asn Thr Arg Val Val							
69		210		215		220		
70	ctg gtg gct gta gag acc tgg act gag aag gat cag att gac atc acc							719
71	Leu Val Ala Val Glu Thr Trp Thr Glu Lys Asp Gln Ile Asp Ile Thr							
72		225		230		235		
73	acc aac cct gtg cag atg ctc cat gag ttc tca aaa tac cgg cag cgc							767
74	Thr Asn Pro Val Gln Met Leu His Glu Phe Ser Lys Tyr Arg Gln Arg							
75		240		245		250		255
76	att aag cag cat gct gat gct gtg cac ctc atc tcg cgg gtg aca ttt							815
77	Ile Lys Gln His Ala Asp Ala Val His Leu Ile Ser Arg Val Thr Phe							
78		260		265		270		
79	cac tat aag aga agc agt ctg agt tac ttt gaa ggt gtc tgt tct cgc							863
80	His Tyr Lys Arg Ser Ser Leu Ser Tyr Phe Glu Gly Val Cys Ser Arg							
81		275		280		285		
82	aca aga gga gtt ggt gtg aat gag tat ggt ctt cca atg gca gtg gca							911
83	Thr Arg Gly Val Gly Val Asn Glu Tyr Gly Leu Pro Met Ala Val Ala							
84		290		295		300		
85	caa gta tta tcg cag agc ctg gct caa aac ctt gga atc caa tgg gaa							959
86	Gln Val Leu Ser Gln Ser Leu Ala Gln Asn Leu Gly Ile Gln Trp Glu							
87		305		310		315		
88	cct tct agc aga aag cca aaa tgt gac tgc aca gaa tcc tgg ggt ggc							1007
89	Pro Ser Ser Arg Lys Pro Lys Cys Asp Cys Thr Glu Ser Trp Gly Gly							
90		320		325		330		335
91	tgc atc atg gag gaa aca ggg gtg tcc cat tct cga aaa ttt tca aag							1055
92	Cys Ile Met Glu Glu Thr Gly Val Ser His Ser Arg Lys Phe Ser Lys							
93		340		345		350		
94	tgc agc att ttg gag tat aga gac ttt tta cag aga gga ggt gga gcc							1103
95	Cys Ser Ile Leu Glu Tyr Arg Asp Phe Leu Gln Arg Gly Gly Gly Ala							
96		355		360		365		

RAW SEQUENCE LISTING

DATE: 01/26/2002

PATENT APPLICATION: US/09/809,617

TIME: 13:46:01

Input Set : N:\Crf3\RULE60\09809617.raw

Output Set: N:\CRF3\01252002\I809617.raw

97	tgc ctt ttc aac agg cca aca aag cta ttt gag ccc acg gaa tgt gga	1151
98	Cys Leu Phe Asn Arg Pro Thr Lys Leu Phe Glu Pro Thr Glu Cys Gly	
99	370 375 380	
100	aat gga tac gtg gaa gct ggg gag gag tgt gat tgt ggt ttt cat gtg	1199
101	Asn Gly Tyr Val Glu Ala Gly Glu Glu Cys Asp Cys Gly Phe His Val	
102	385 390 395	
103	gaa tgc tat gga tta tgc tgt aag aaa tgt tcc ctc tcc aac ggg gct	1247
104	Glu Cys Tyr Gly Leu Cys Cys Lys Lys Cys Ser Leu Ser Asn Gly Ala	
105	400 405 410 415	
106	cac tgc agc gac ggg ccc tgc tgt aac aat acc tca tgt ctt ttt cag	1295
107	His Cys Ser Asp Gly Pro Cys Cys Asn Asn Thr Ser Cys Leu Phe Gln	
108	420 425 430	
109	cca cga ggg tat gaa tgc cgg gat gct gtg aac gag tgt gat att act	1343
110	Pro Arg Gly Tyr Glu Cys Arg Asp Ala Val Asn Glu Cys Asp Ile Thr	
111	435 440 445	
112	gaa tat tgt act gga gac tct ggt cag tgc cca cca aat ctt cat aag	1391
113	Glu Tyr Cys Thr Gly Asp Ser Gly Gln Cys Pro Pro Asn Leu His Lys	
114	450 455 460	
115	caa gac gga tat gca tgc aat caa aat cag ggc cgc tgc tac aat ggc	1439
116	Gln Asp Gly Tyr Ala Cys Asn Gln Asn Gln Gly Arg Cys Tyr Asn Gly	
117	465 470 475	
118	gag tgc aag acc aga gac aac cag tgt cag tac atc tgg gga aca aag	1487
119	Glu Cys Lys Thr Arg Asp Asn Gln Cys Gln Tyr Ile Trp Gly Thr Lys	
120	480 485 490 495	
121	gct gca ggg tct gac aag ttc tgc tat gaa aag ctg aat aca gaa ggc	1535
122	Ala Ala Gly Ser Asp Lys Phe Cys Tyr Glu Lys Leu Asn Thr Glu Gly	
123	500 505 510	
124	act gag aag gga aac tgc ggg aag gat gga gac cgg tgg att cag tgc	1583
125	Thr Glu Lys Gly Asn Cys Gly Lys Asp Gly Asp Arg Trp Ile Gln Cys	
126	515 520 525	
127	agc aaa cat gat gtg ttc tgt gga ttc tta ctc tgt acc aat ctt act	1631
128	Ser Lys His Asp Val Phe Cys Gly Phe Leu Leu Cys Thr Asn Leu Thr	
129	530 535 540	
130	cga gct cca cgt att ggt caa ctt cag ggt gag atc att cca act tcc	1679
131	Arg Ala Pro Arg Ile Gly Gln Leu Gln Gly Glu Ile Ile Pro Thr Ser	
132	545 550 555	
133	ttc tac cat caa ggc cgg gtg att gac tgc agt ggt gcc cat gta gtt	1727
134	Phe Tyr His Gln Gly Arg Val Ile Asp Cys Ser Gly Ala His Val Val	
135	560 565 570 575	
136	tta gat gat gat acg gat gtg ggc tat gta gaa gat gga acg cca tgt	1775
137	Leu Asp Asp Asp Thr Asp Val Gly Tyr Val Glu Asp Gly Thr Pro Cys	
138	580 585 590	
139	ggc ccg tct atg atg tgt tta gat cgg aag tgc cta caa att caa gcc	1823
140	Gly Pro Ser Met Cys Leu Asp Arg Lys Cys Leu Gln Ile Gln Ala	
141	595 600 605	
142	cta aat atg agc agc tgt cca ctc gat tcc aag ggt aaa gtc tgt tcg	1871
143	Leu Asn Met Ser Ser Cys Pro Leu Asp Ser Lys Gly Lys Val Cys Ser	
144	610 615 620	
145	ggc cat ggg gtg tgt agt aat gaa gcc acc tgc att tgt gat ttc acc	1919

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/809,617

DATE: 01/26/2002

TIME: 13:46:01

Input Set : N:\Crf3\RULE60\09809617.raw

Output Set: N:\CRF3\01252002\I809617.raw

```

146 Gly His Gly Val Cys Ser Asn Glu Ala Thr Cys Ile Cys Asp Phe Thr
147      625                      630                      635
148 tgg gca ggg aca gat tgc agt atc cgg gat cca gtt agg aac ctt cac      1967
149 Trp Ala Gly Thr Asp Cys Ser Ile Arg Asp Pro Val Arg Asn Leu His
150      640                      645                      650                      655
151 ccc ccc aag gat gaa gga ccc aag ggt ttg tgt gat ttt ggt ttc aat      2015
152 Pro Pro Lys Asp Glu Gly Pro Lys Gly Leu Cys Asp Phe Gly Phe Asn
153      660                      665                      670
154 tca tgg aat act gaa ttc gtt gac act gtt cca atg cac cag tat aac      2063
155 Ser Trp Asn Thr Glu Phe Val Asp Thr Val Pro Met His Gln Tyr Asn
156      675                      680                      685
W--> 157 att cta att gac tta aga gga gac aca taagaatatc ngtttttgcc      2110
158 Ile Leu Ile Asp Leu Arg Gly Asp Thr
159      690                      695
160 tttaaagtat ataatttatg ttactgccaa attaaggatt ctgatatatc atatttttaa      2170
161 aatgtgtttg aattacttct tagtctagaa ctgagattgg gaagaagtaa atatacacat      2230
162 tttctttaat acagtattct ttttctcttt aaacctta      2268
164 <210> SEQ ID NO: 2
165 <211> LENGTH: 696
166 <212> TYPE: PRT
167 <213> ORGANISM: Homo sapiens
168 <400> SEQUENCE: 2
169 Thr Val Leu Glu Phe Gly Thr Arg Leu Asp Thr Lys Ala Arg His Gln
170      1      5      10      15
171 Gln Lys His Asn Lys Ala Val His Leu Ala Gln Ala Ser Phe Gln Ile
172      20      25      30
173 Glu Ala Phe Gly Ser Lys Phe Ile Leu Asp Leu Ile Leu Asn Asn Gly
174      35      40      45
175 Leu Leu Ser Ser Asp Tyr Val Glu Ile His Tyr Glu Asn Gly Lys Pro
176      50      55      60
177 Gln Tyr Ser Lys Gly Gly Glu His Cys Tyr Tyr His Gly Ser Ile Arg
178      65      70      75      80
179 Gly Val Lys Asp Ser Lys Val Ala Leu Ser Thr Cys Asn Gly Leu His
180      85      90      95
181 Gly Met Phe Glu Asp Asp Thr Phe Val Tyr Met Ile Glu Pro Leu Glu
182      100      105      110
183 Leu Val His Asp Glu Lys Ser Thr Gly Arg Pro His Ile Ile Gln Lys
184      115      120      125
185 Thr Leu Ala Gly Gln Tyr Ser Lys Gln Met Lys Asn Leu Thr Met Glu
186      130      135      140
187 Arg Gly Asp Gln Trp Pro Phe Leu Ser Glu Leu Gln Trp Leu Lys Arg
188      145      150      155      160
189 Arg Lys Arg Ala Val Asn Pro Ser Arg Gly Ile Phe Glu Glu Met Lys
190      165      170      175
191 Tyr Leu Glu Leu Met Ile Gly Asn Asp His Lys Thr Tyr Lys Lys His
192      180      185      190
193 Arg Ser Ser His Ala His Thr Asn Asn Phe Ala Lys Ser Val Val Asn
194      195      200      205
195 Leu Val Asp Ser Ile Tyr Lys Glu Gln Leu Asn Thr Arg Val Val Leu

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/809,617

DATE: 01/26/2002

TIME: 13:46:01

Input Set : N:\Crf3\RULE60\09809617.raw

Output Set: N:\CRF3\01252002\I809617.raw

196	210	215	220
197	Val Ala Val Glu Thr Trp Thr Glu Lys Asp Gln Ile Asp Ile Thr Thr		
198	225	230	235
199	Asn Pro Val Gln Met Leu His Glu Phe Ser Lys Tyr Arg Gln Arg Ile		240
200		245	250
201	Lys Gln His Ala Asp Ala Val His Leu Ile Ser Arg Val Thr Phe His		255
202		260	265
203	Tyr Lys Arg Ser Ser Leu Ser Tyr Phe Glu Gly Val Cys Ser Arg Thr		270
204		275	280
205	Arg Gly Val Gly Val Asn Glu Tyr Gly Leu Pro Met Ala Val Ala Gln		285
206		290	295
207	Val Leu Ser Gln Ser Leu Ala Gln Asn Leu Gly Ile Gln Trp Glu Pro		300
208	305	310	315
209	Ser Ser Arg Lys Pro Lys Cys Asp Cys Thr Glu Ser Trp Gly Gly Cys		320
210		325	330
211	Ile Met Glu Glu Thr Gly Val Ser His Ser Arg Lys Phe Ser Lys Cys		335
212		340	345
213	Ser Ile Leu Glu Tyr Arg Asp Phe Leu Gln Arg Gly Gly Gly Ala Cys		350
214		355	360
215	Leu Phe Asn Arg Pro Thr Lys Leu Phe Glu Pro Thr Glu Cys Gly Asn		365
216		370	375
217	Gly Tyr Val Glu Ala Gly Glu Glu Cys Asp Cys Gly Phe His Val Glu		380
218	385	390	395
219	Cys Tyr Gly Leu Cys Cys Lys Lys Cys Ser Leu Ser Asn Gly Ala His		400
220		405	410
221	Cys Ser Asp Gly Pro Cys Cys Asn Asn Thr Ser Cys Leu Phe Gln Pro		415
222		420	425
223	Arg Gly Tyr Glu Cys Arg Asp Ala Val Asn Glu Cys Asp Ile Thr Glu		430
224		435	440
225	Tyr Cys Thr Gly Asp Ser Gly Gln Cys Pro Pro Asn Leu His Lys Gln		445
226		450	455
227	Asp Gly Tyr Ala Cys Asn Gln Asn Gln Gly Arg Cys Tyr Asn Gly Glu		460
228	465	470	475
229	Cys Lys Thr Arg Asp Asn Gln Cys Gln Tyr Ile Trp Gly Thr Lys Ala		480
230		485	490
231	Ala Gly Ser Asp Lys Phe Cys Tyr Glu Lys Leu Asn Thr Glu Gly Thr		495
232		500	505
233	Glu Lys Gly Asn Cys Gly Lys Asp Gly Asp Arg Trp Ile Gln Cys Ser		510
234		515	520
235	Lys His Asp Val Phe Cys Gly Phe Leu Leu Cys Thr Asn Leu Thr Arg		525
236		530	535
237	Ala Pro Arg Ile Gly Gln Leu Gln Gly Glu Ile Pro Thr Ser Phe		540
238	545	550	555
239	Tyr His Gln Gly Arg Val Ile Asp Cys Ser Gly Ala His Val Val Leu		560
240		565	570
241	Asp Asp Asp Thr Asp Val Gly Tyr Val Glu Asp Gly Thr Pro Cys Gly		575
242		580	585
243	Pro Ser Met Met Cys Leu Asp Arg Lys Cys Leu Gln Ile Gln Ala Leu		590
244		595	600
			605

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/809,617

DATE: 01/26/2002

TIME: 13:46:02

Input Set : N:\Crf3\RULE60\09809617.raw

Output Set: N:\CRF3\01252002\I809617.raw

L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3